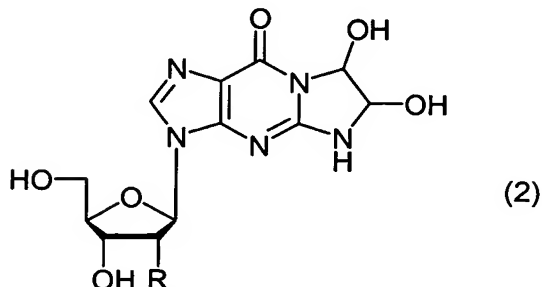
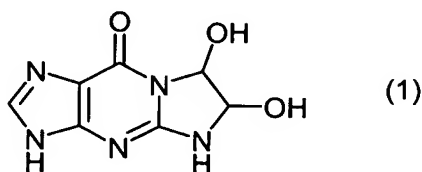


WHAT IS CLAIMED IS:

1. A method of preparing a glyoxal-guanosine-group compound represented by formula (2):



- 5 wherein R represents a hydrogen atom or a hydroxyl group, which comprises the step of:  
reacting glyoxal-guanine represented by formula (1):



- with any one selected from the group consisting of uridine, 2'-deoxyuridine and thymidine, together with phosphate ion, in the presence of purine nucleoside phosphorylase and pyrimidine nucleoside phosphorylase, thereby obtaining a glyoxal-guanosine or glyoxal-2'-deoxyguanosine.

2. The method of preparing a glyoxal-guanosine-group compound according to claim 1, wherein, as purine nucleoside phosphorylase and pyrimidine nucleoside phosphorylase, a microorganism itself which contains said enzymes or said enzymes derived from the microorganism are used.

3. The method of preparing a glyoxal-guanosine-group compound according to claim 2, wherein the microorganism belongs to *Bacillus* genus, *Escherichia* genus or *Klebsiella* genus.

4. The method of preparing a glyoxal-guanosine-group compound according to claim 2, wherein the microorganism is *Bacillus stearothermophilus* JTS 859 (FERM BP-6885), *Escherichia coli* IFO 3301, *Escherichia coli* IFO 13168, or *Klebsiella pneumoniae* IFO 3321.

5. The method of preparing a glyoxal-guanosine-group compound according to claim 3, wherein the microorganism is *Bacillus stearothermophilus* JTS 859 (FERM BP-6885), *Escherichia coli*-IFO 3301, *Escherichia coli* IFO 13168, or *Klebsiella pneumoniae* IFO 3321.
- 5 6. The method of preparing a glyoxal-guanosine-group compound according to claim 1, wherein at least one compound selected from the group consisting of glycine, iminodiacetic acid, nitrilotriacetic acid, ethylenediaminetetraacetic acid, ethylene glycol bis( $\beta$ -aminoethyl ether)-N,N,N',N'-tetraacetic acid and salts thereof is added, or the above at least one compound is added in combination with boric acid or a salt thereof.
- 10 7. The method of preparing a glyoxal-guanosine-group compound according to claim 2, wherein at least one compound selected from the group consisting of glycine, iminodiacetic acid, nitrilotriacetic acid, ethylenediaminetetraacetic acid, ethylene glycol bis( $\beta$ -aminoethyl ether)-N,N,N',N'-tetraacetic acid and salts thereof is added, or the above at least one compound is added in combination with boric acid or a salt thereof.
- 15 8. The method of preparing a glyoxal-guanosine-group compound according to claim 3, wherein at least one compound selected from the group consisting of glycine, iminodiacetic acid, nitrilotriacetic acid, ethylenediaminetetraacetic acid, ethylene glycol bis( $\beta$ -aminoethyl ether)-N,N,N',N'-tetraacetic acid and salts thereof is added, or the above at least one compound is added in combination with boric acid or a salt thereof.
- 20 9. The method of preparing a glyoxal-guanosine-group compound according to claim 4, wherein at least one compound selected from the group consisting of glycine, iminodiacetic acid, nitrilotriacetic acid, ethylenediaminetetraacetic acid, ethylene glycol bis( $\beta$ -aminoethyl ether)-N,N,N',N'-tetraacetic acid and salts thereof is added, or the above at least one compound is added in combination with boric acid or a salt thereof.
- 25 10. The method of preparing a glyoxal-guanosine-group compound according to claim 5, wherein at least one compound selected from the group consisting of glycine, iminodiacetic acid, nitrilotriacetic acid, ethylenediaminetetraacetic acid, ethylene glycol bis( $\beta$ -aminoethyl ether)-N,N,N',N'-tetraacetic acid and salts thereof is added, or the above at least one compound is added in combination with boric acid or a salt thereof.